eBridge16CR - IP over Coax Receiver

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Overview

eBridge16CR

eBridge™

The eBridge16CR is a 16 channel ethernet over coax rack mount receiver. The eBridge16CR enables fast 10/100Base-T Ethernet digital communication to be transmitted over coax cable. This unit is designed to be used with eBridge1CT transceivers. This plug and play unit facilitates system upgrades from analog to IP cameras/devices utilizing existing legacy Coax and eliminating the costs and labor associated with installing new network cabling. In addition the use of coax enables data transmission to be extended over 1500' (over four times the 100m/328 ft Ethernet maximum length), eliminating the need for repeaters. At the same time the units can combine Composite Video Signal with the Ethernet data enabling connection to an analog input on a monitor or matrix switch.

Specifications

sloc™ Compliant:

- Incorporates *sloc™ (Security Link over Coax) technology.

Input:

- 24VDC to 56VDC UL Listed Class 2 power supply (polarity not observed) or UL Listed 24VAC Class 2 plug-in transformer.

Power Consumption:

- 24VDC/1500mA, 56VDC/700mA, 24VAC/2200mA.

Ethernet:

- Sixteen (16) RJ45 ethernet channels.
- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair Cat-5 or higher structured cable.
- Distance: up to 328 ft. (100m).
- Speed: 10/100BaseT, half/full duplex, auto negotiation.

Coax:

- Sixteen (16) BNC input channels.
- Sixteen (16) BNC composite video output channels.
- Distance: up to 1,500 ft.
- Connectivity: BNC, RG-59/U or similar.

LED Indicators:

- Blue LED - Coax link connection.
- Yellow and Green LED (RJ45) IP Link status, 10/100Base-T/active.
- Green LED - Power.

Environmental:

- Operating Temperature: 14ºF to 122ºF (–10ºC to +50ºC).
- Storage Temperature: –22º to 158ºF (–30º to +70ºC) Storage.
- Humidity: 20 to 85%, non-condensing.

Electrical:

- BTU/Hr.:
  - 24VDC: 18.43 BTU/Hr.
  - 56VDC: 20.06 BTU/Hr.
  - 24VAC: 27.02 BTU/Hr.

Applications:

- Retrofit digital IP cameras in an analog CCTV installation.
- Works with Megapixel, HD720, HD1080 and VGA (SD) cameras.
- Extend Network link distance in an industrial environment.
- Upgrade deployed CCTV Coax to a digital network for Retail, Casinos, Airports, Schools, Hospitals, etc.
- Simultaneously use Composite Video matrix switch for monitor display and control, while the NVR is used for digital IP camera recording.
- eBridge is rated to pass 25mbps of data at distances up to 1500 ft. With proper headend equipment, multiple Megapixel cameras can be used.

Mechanical:

- 1U rack mount chassis for use in standard EIA 19" rack.
- Enclosure Dimensions (H x W x D approx.): 1.625" (41.275mm) x 19.125" (486mm) x 8.5" (216mm)
- Product weight (approx.): 6.17 lbs. (2.8 kg).
- Shipping weight (approx.): 7.47 lbs. (3.39 kg).

Units available individually:

- **eBridge1CT:** Ethernet transceiver enables IP video/data over Coax.
  Unit operates with eBridge1CR and eBridge16CR receivers.

* sloc is a registered trademark of Intersil Corporation.

Agency Approvals

c UL us — UL/CUL Listed for Information Technology Equipment (UL 60950-1).

C-Tick Approved - Z1409

CE — European Conformity